FIG. 1

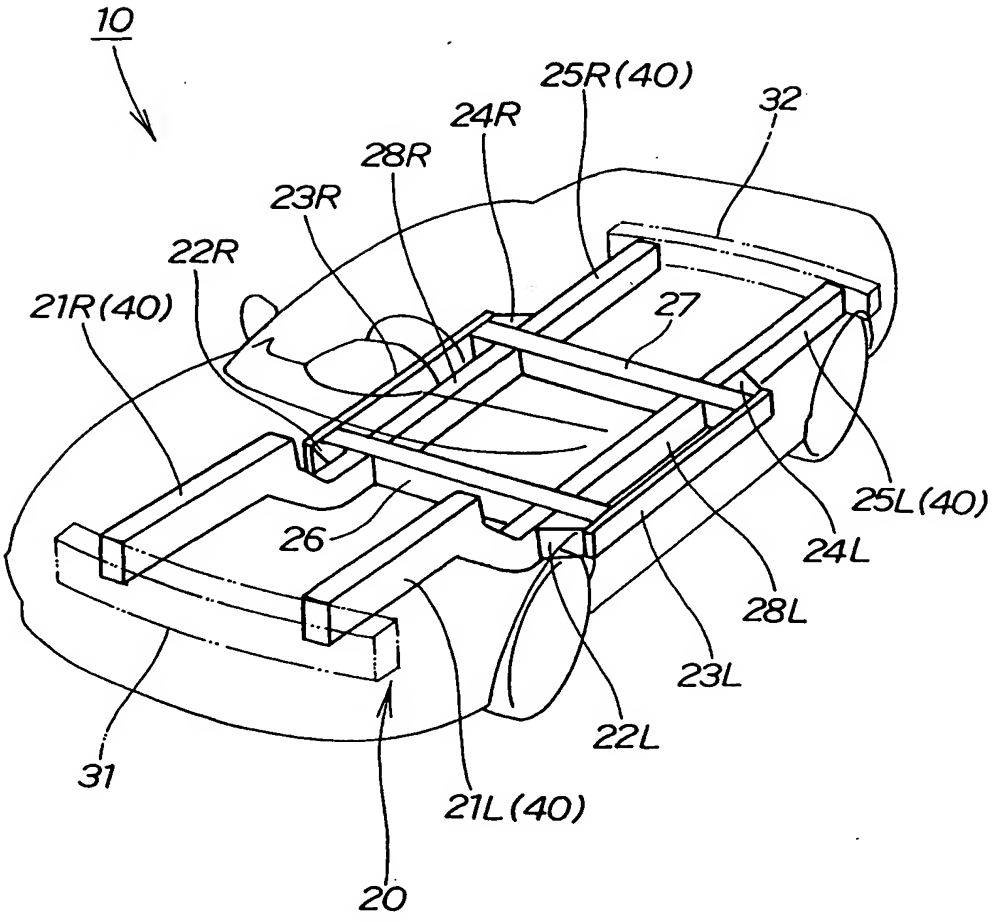

10
25R(40)
32
24R
28R
23R
22R
21R(40)
27
26
25L(40)
24L
28L
23L
22L
31
21L(40)
20

FIG. 2A

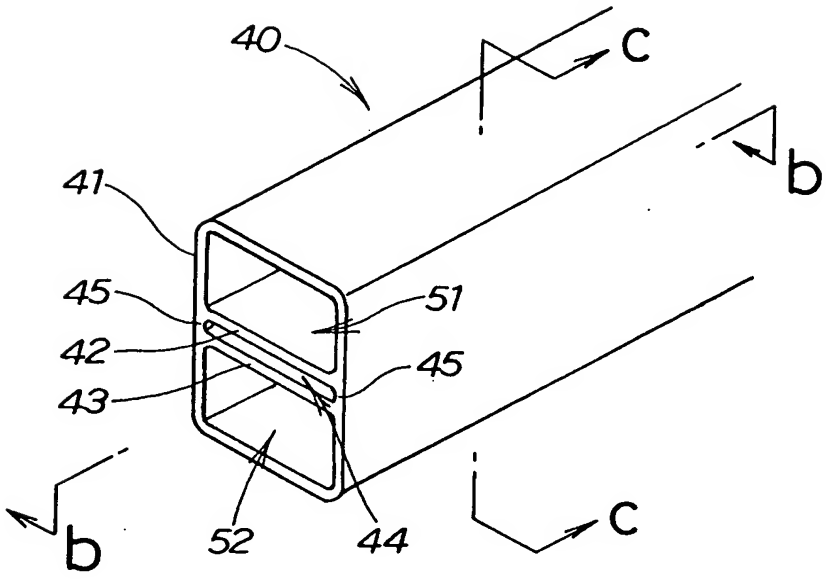


FIG. 2B

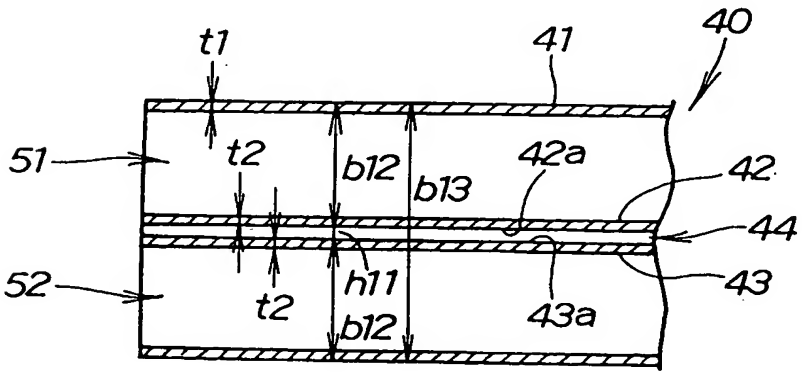


FIG. 2C

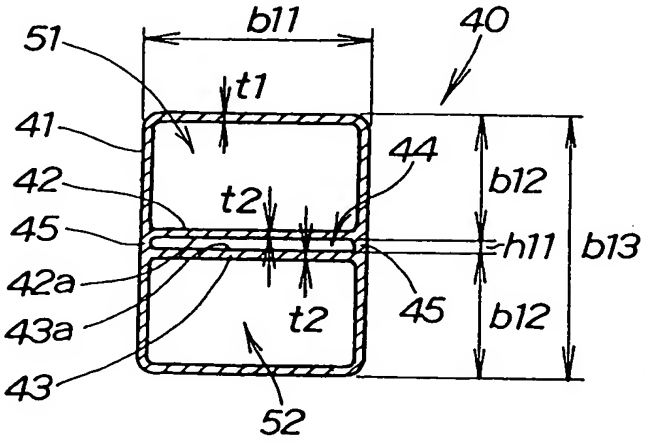


FIG. 3A

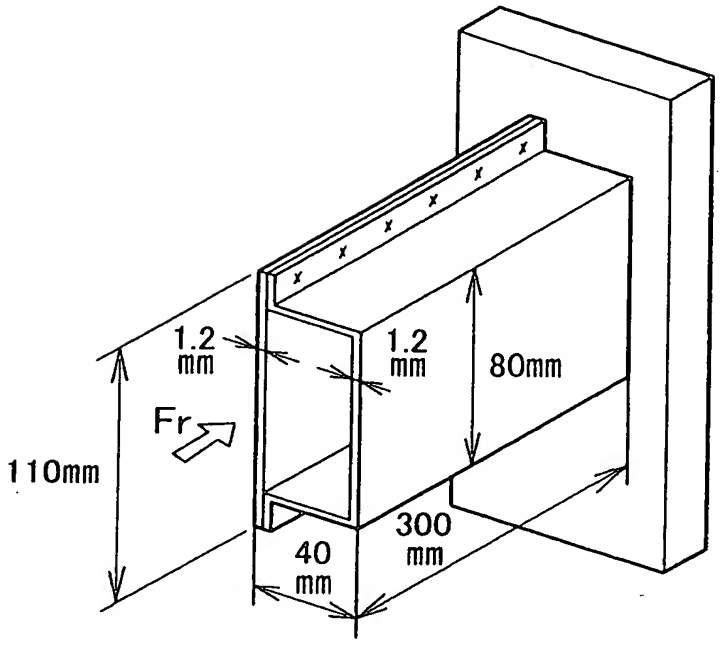

1.2
mm
1.2
mm
80mm
Fr
110mm
300
mm
40
mm

FIG. 3B

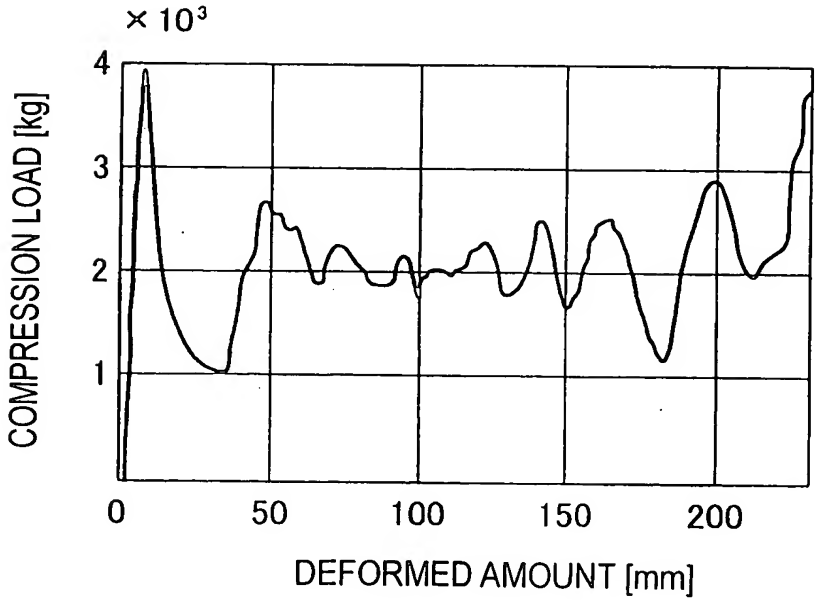

× 10³
4
3
2
1
COMPRESSION LOAD [kg]
0
50
100
150
200
DEFORMED AMOUNT [mm]

FIG. 4A

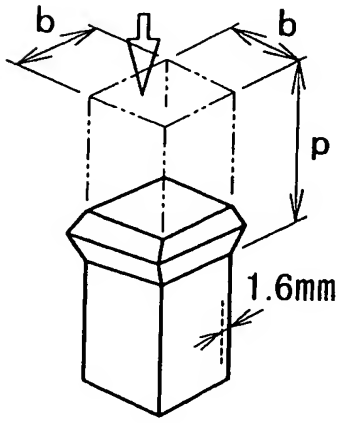

b
b
p
1.6mm

FIG. 4B

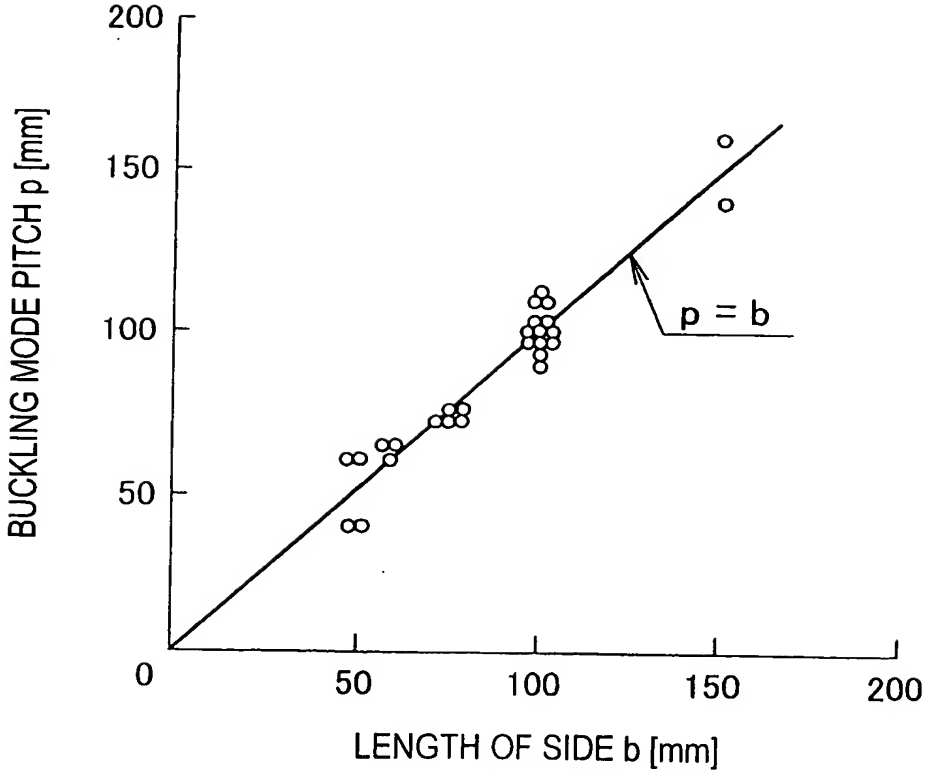

200
150
100
50
0
50
100
150
200
BUCKLING MODE PITCH p [mm]
LENGTH OF SIDE b [mm]
p = b

FIG. 5A

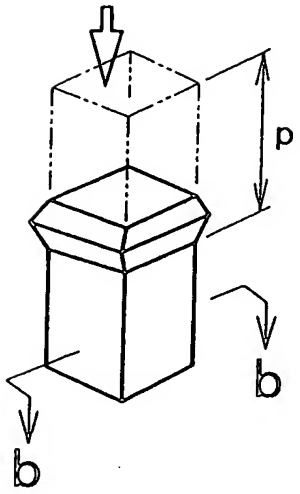
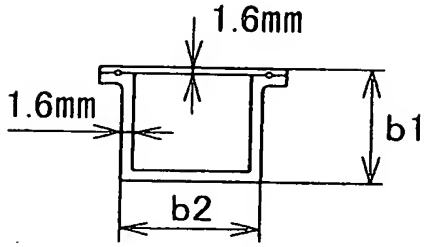


FIG. 5B



b1 + b2 = 150 mm
(CONSTANT)

FIG. 5C

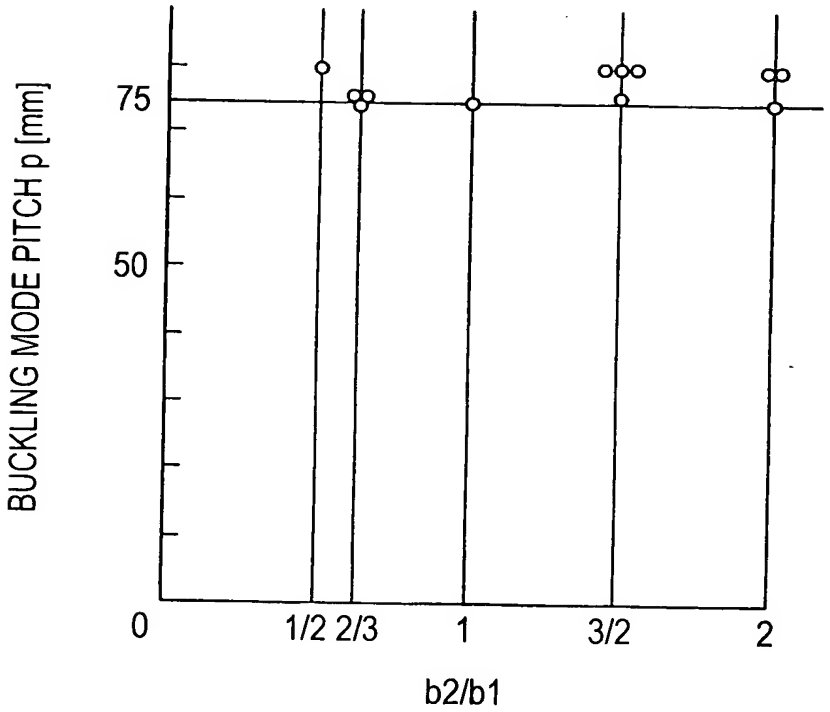


FIG. 6A

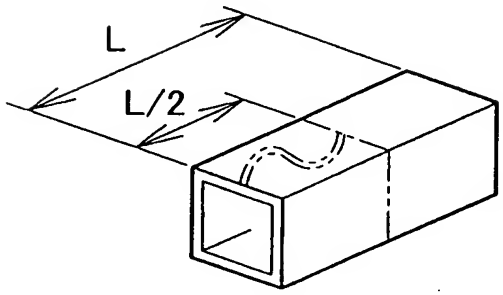
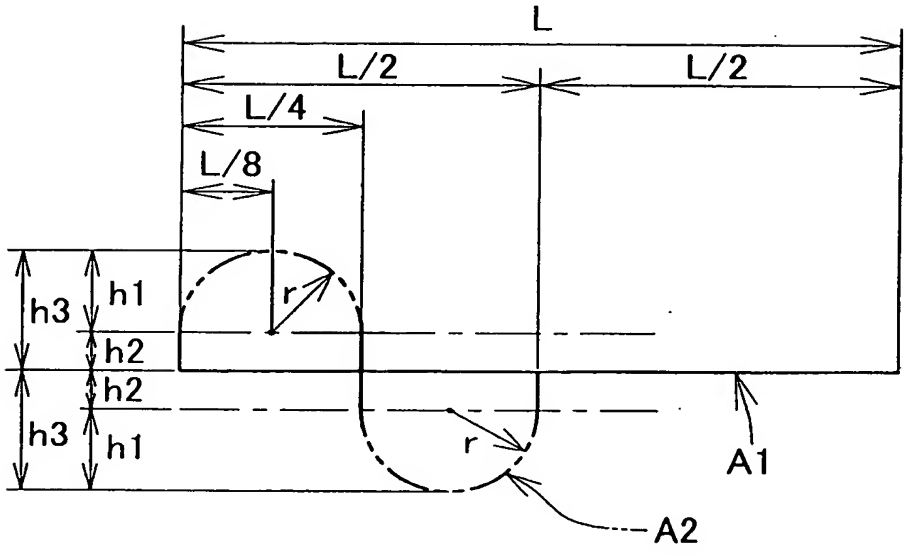


FIG. 6B



$r = L/8 = 0.125 \times L$

$h1 = r = 0.125 \times L$

$h2 = (L - 2 \times \pi \times r) / 4 = 0.054 \times L$

$h3 = h1 + h2 = (0.125 + 0.054) \times L \fallingdotseq 0.18 \times L$

FIG. 7

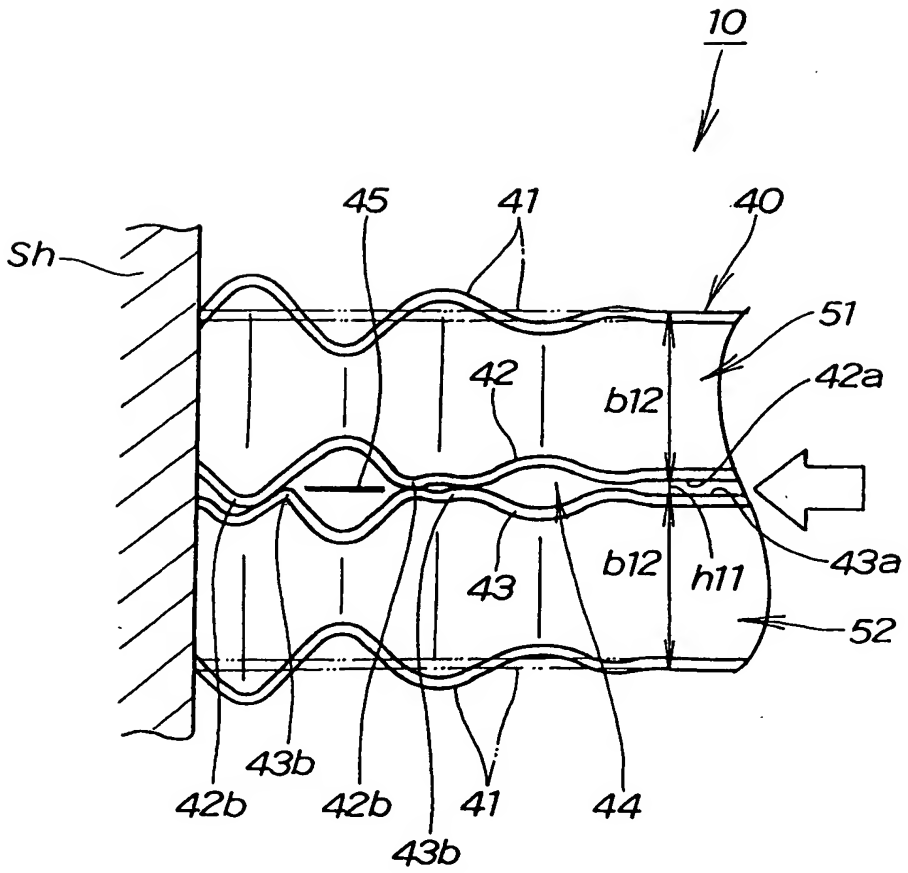


FIG. 8A

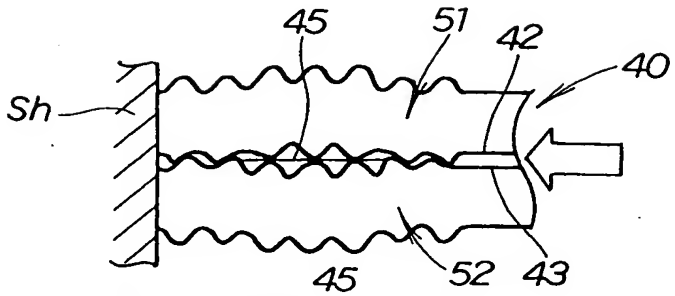


FIG. 8B

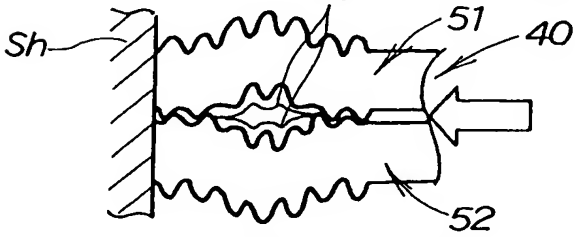


FIG. 8C

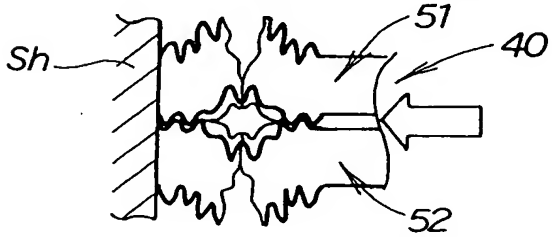


FIG. 8D

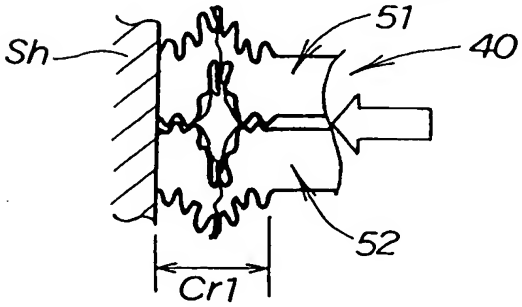


FIG. 8E

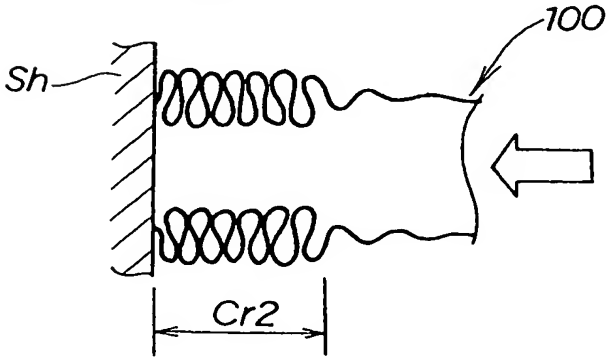


FIG. 9A

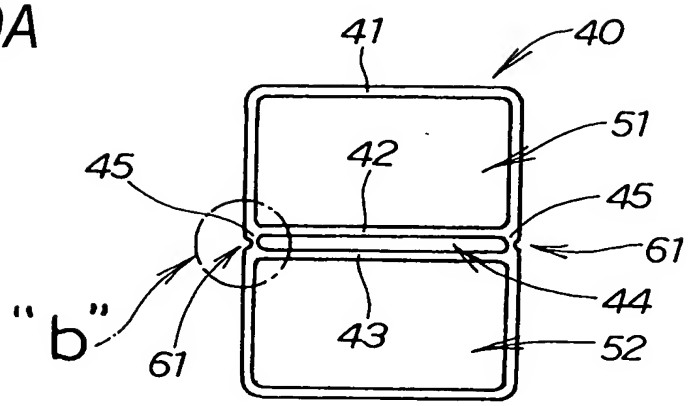


FIG. 9B

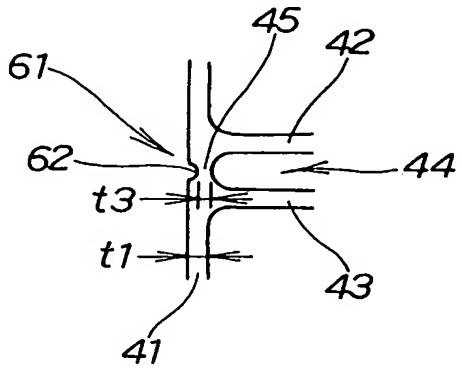


FIG. 9C

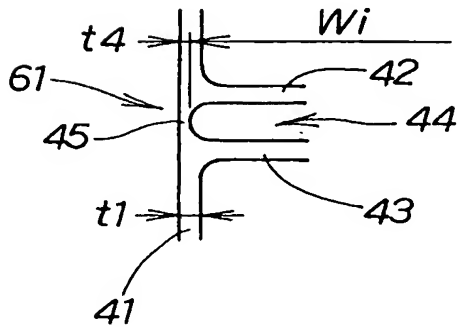


FIG. 10A

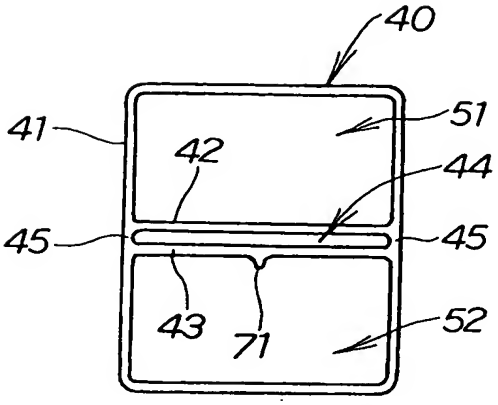


FIG. 10B

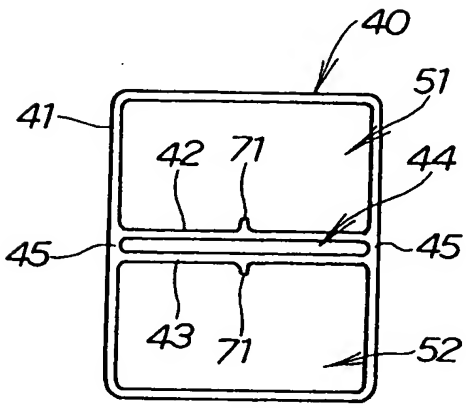


FIG. 11A

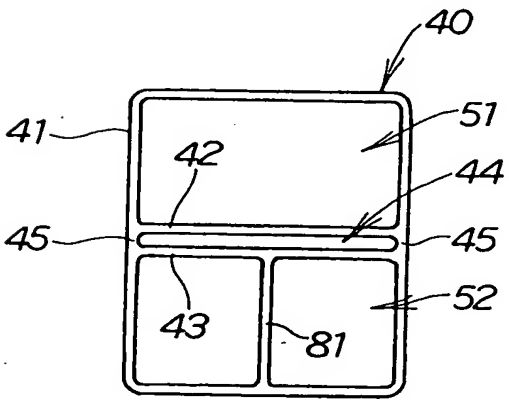


FIG. 11B

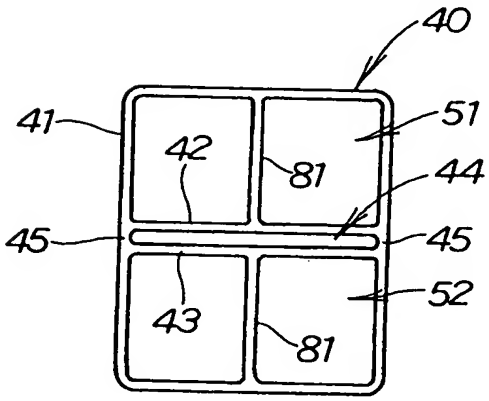
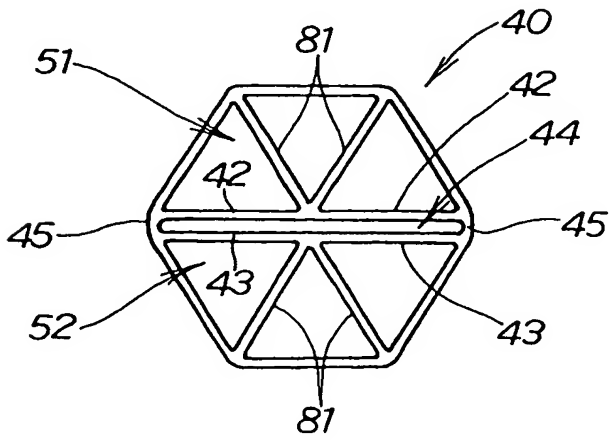



FIG. 12